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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,327	02/23/2004	Michael N. Burdenko	8565-AFP/GDM	8723
20349	7590	07/26/2005	EXAMINER	
POLAROID CORPORATION PATENT DEPARTMENT 1265 MAIN STREET WALTHAM, MA 02451			TRAN, HUAN HUU	
			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/784,327

Applicant(s)

BURDENKO, MICHAEL N.

Examiner

Huan H. Tran

Art Unit

2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 17-23 is/are rejected.
- 7) ☒ Claim(s) 8-16 and 23-32 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 8/23/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Objections

1. Claims 31-32 are objected to because of the following informalities: The preamble of the claims are directed to a thermal printer, whereas the base claim is directed to a thermal platen. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claimd 1, 17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yabuki et al (JP 56-157389).

As to claim 1, Yabuki et al discloses, with reference to Fig. 4 in particular, a thermal print head platen (4) comprising a pair of support members (9) separated by a gap (8) , wherein said support members are adapted to be oriented to press print media (5) against a thermal print head (1) for printing purposes with said gap approximately aligned with a heating element (3) located within said print head.

As to claim 17, Yabuki et al discloses a thermal printer comprising a thermal print head (1) arranged in operative relationship with a thermal print head platen (4) as defined in Claim 1, said thermal print head platen adapted to pressure print media against said thermal print head for printing purposes.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2, 3, 4, 5, 6, 7, 18, 19, 20, 21, 22, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki et al in view of Inoue (JP 58-014786 cited in the IDS filed on 08/23/04).

Yabuki et al discloses essentially the claimed invention except that it does not clearly show the limitation "wherein said print head includes a convex surface relative to said support members for printing purposes and said heating element is located approximately at an apex of said convex surface relative to said support members for printing purposes" (claims 2, 18, 19, 20) and "the thermal printhead having a linear array of heating elements for printing purposes" (claims 3, 19, 20).

As to claims 5 and 6, Yabuki et al shows the limitation "wherein said platen is adapted to provide an overall convex path for print media relative to the thermal print head for printing purposes." (claims 5, 21), and the limitation "wherein said platen has an elongated overall convex surface including a convex cross sectional shape adapted for providing said overall convex print media path" (claims 6, 22)

As to claims 7 and 23, Yabuki et al shows that the platen support members 9 extend from the overall cross sectional surface of the platen 4.

Inoue shows that such printhead is conventional in the art. See Figs. 1 and 3 which show a thermal head having an elongated convex surface in parallel relation to a linear array of heating element, with the linear array of heating elements located approximately at an apex of said elongated convex surface (claims 1 and 4).

It would have been obvious to one of ordinary skill in the art to use the printhead as taught by Inoue in Yabuki et al so that the heating element presses closely against the printing medium.

6. Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki et al in view of Inoue as applied to claim 17 above, and further in view of Kobayashi et al (US Patent 4725853 cited in the IDS filed on 08/23/04)

Yabuki et al in view of Inoue discloses the claimed invention except that it does not show that the platen is stationary and the printhead is biased against the thermal platen.

Kobayashi et al shows that such feature is conventional in the art. See Fig. 6 which show a head 1 being biased against a platen 62.

It would have been obvious to one in the art to modify the teaching of Yabuki et al modified by Inoue with the teaching of Kobayashi et al as a way to bring the head into contact with the platen.

7. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki et al in view of Inoue as applied to claim 17 above, and further in view of Schafer et al (US Patent 4327366 cited in the IDS filed on 08/23/04).

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Yabuki et al in view of Inoue discloses the claimed invention except that it does not show that the print head is stationary and the platen is biased against the thermal printhead.

Schafter et al shows that such feature is conventional in the art. See Fig. 2 and Col. 3, lines 5-7.

It would have been obvious to one in the art to modify the teaching of Yabuki et al modified by Inoue with the teaching of Schafter et al as a way to bring the head into contact with the platen.

Allowable Subject Matter

8. Claims 8-11, 12, 13-16, 24-27, 28, 29, 30, 31-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


9. The following is a statement of reasons for the indication of allowable subject matter: As to claims 8, 12, 24, 28 and dependent claims thereof, prior art do not teach or suggest the limitation relating to the frame.

As to claims 13, 29, 30, and dependent claims thereof, prior art do not teach or suggest the claimed member.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan H. Tran whose telephone number is (571) 272-2261. The examiner can normally be reached on at work on W-F from 6:30 to 5; T are telework days.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Talbott can be reached on (571) 272-1934. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Huan H. Tran
Primary Examiner
Art Unit 2861

hht
07/22/05